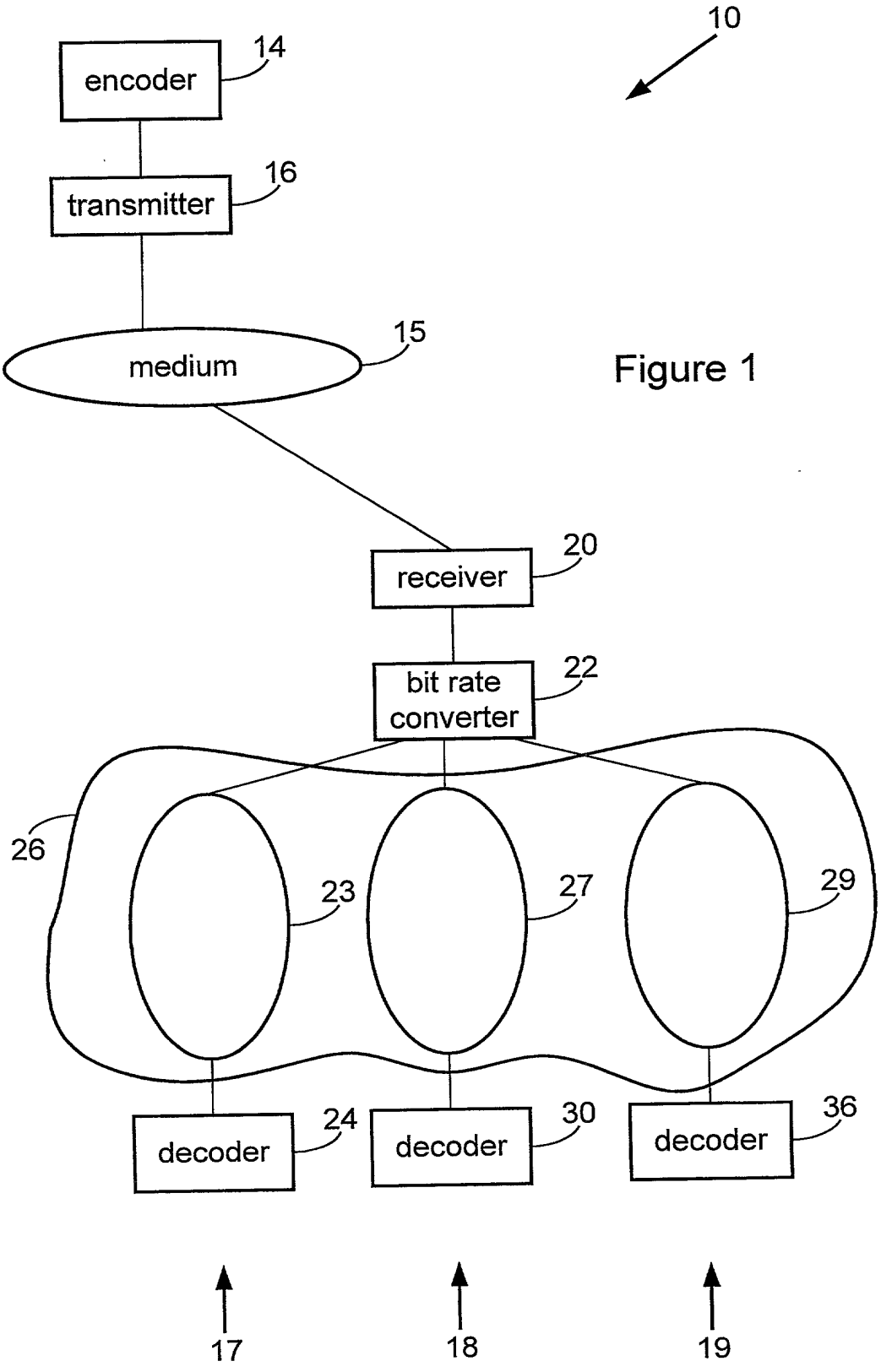
10
encoder
14
transmitter
16
medium
15
receiver
20
bit rate converter
22
26
23
27
29
decoder
24
decoder
30
decoder
36
17
18
19

Figure 1

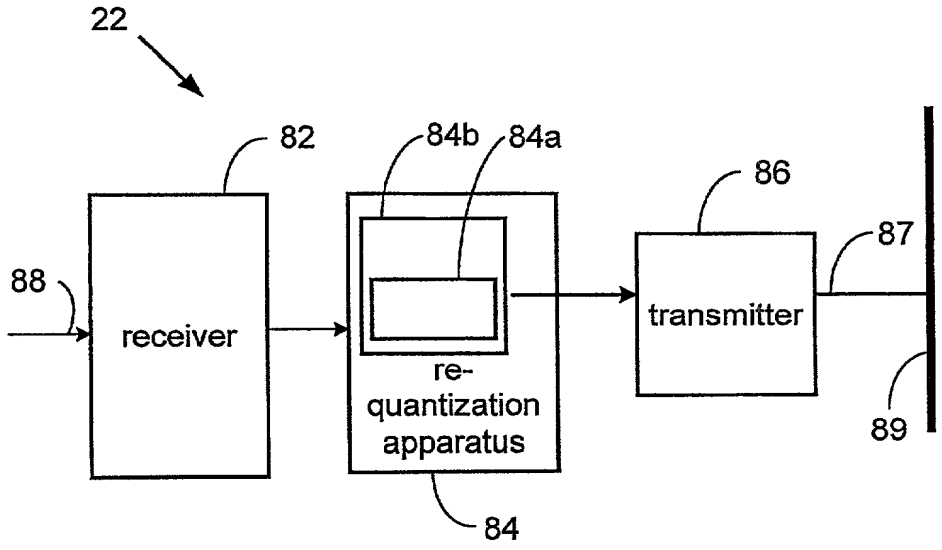

Figure 2A

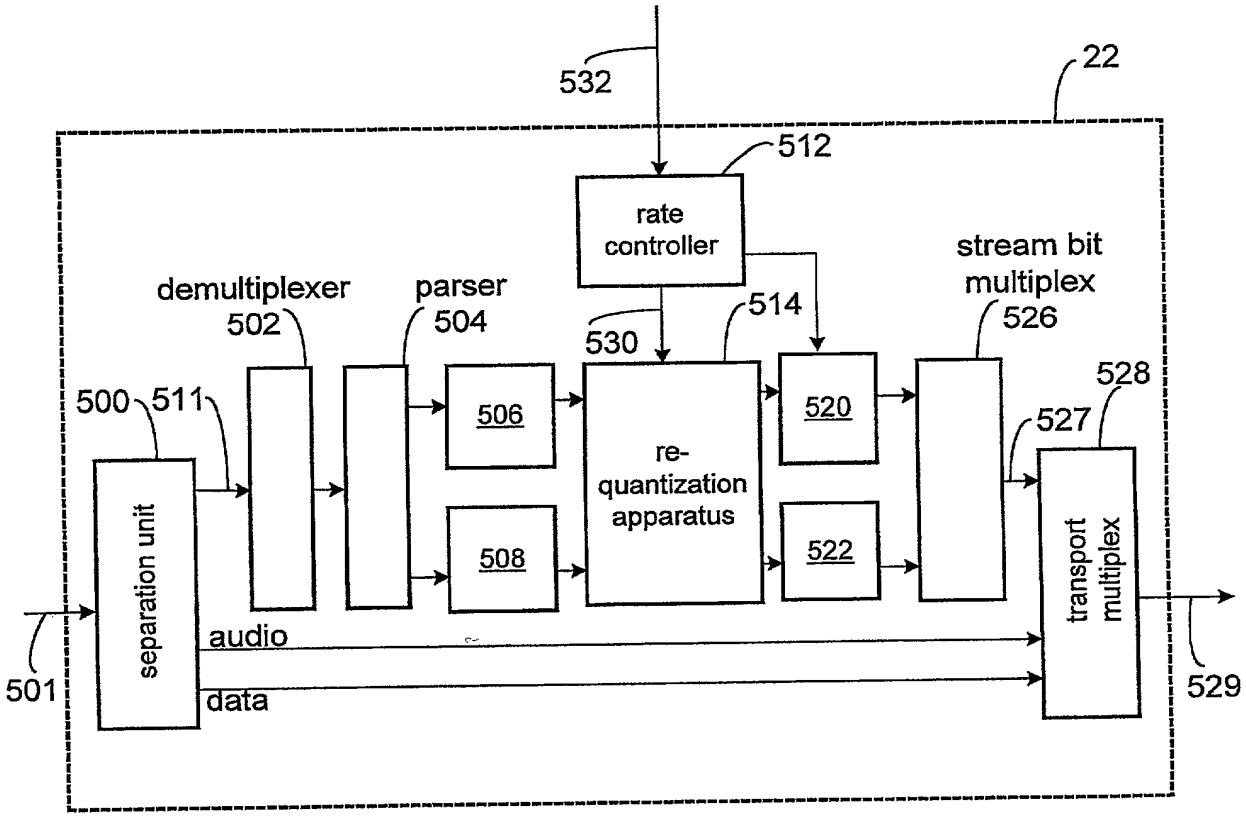

Figure 2B

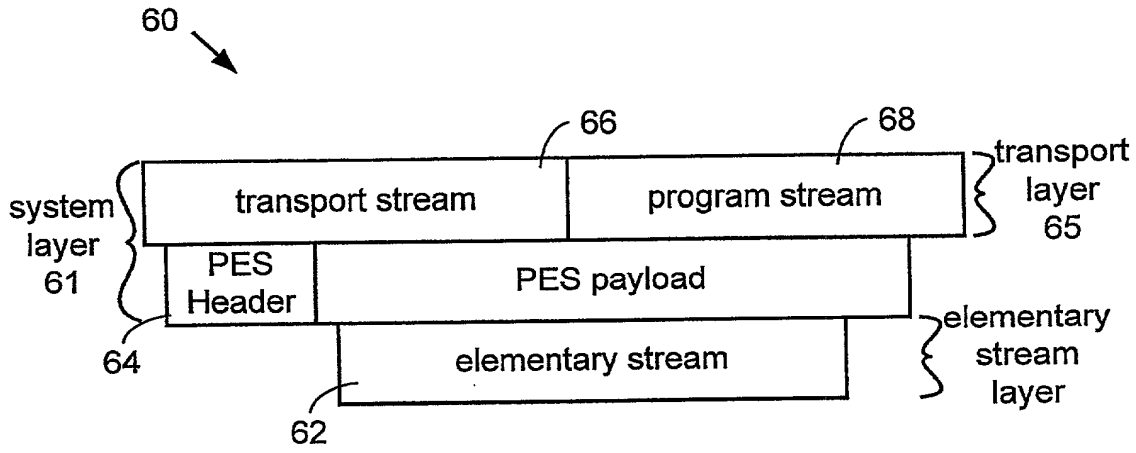
60
66
68
transport stream
program stream
transport layer 65
system layer 61
PES Header
PES payload
64
elementary stream
elementary stream layer
62

Figure 3

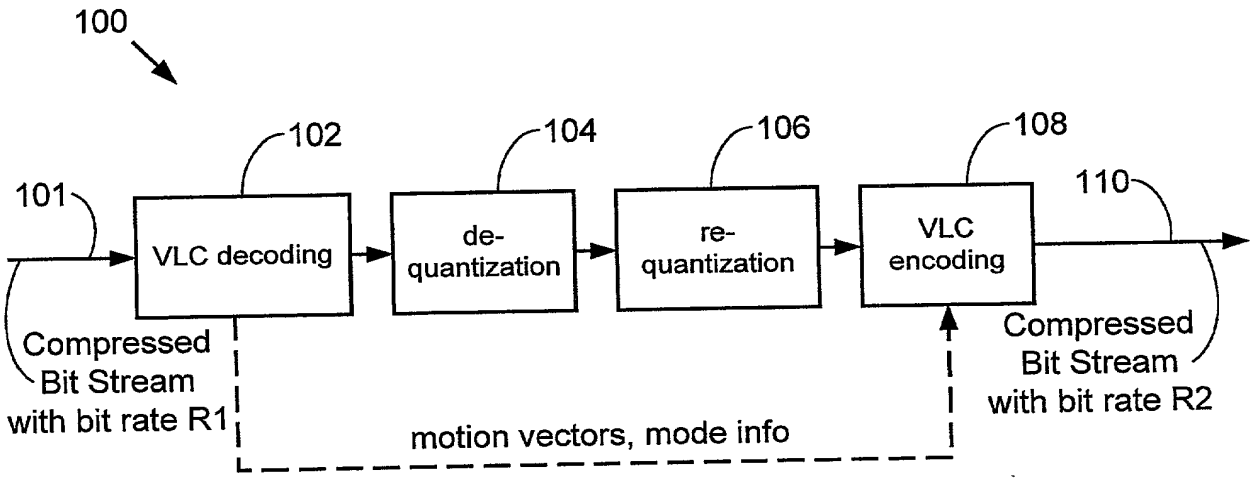

Figure 4A
(PRIOR ART)

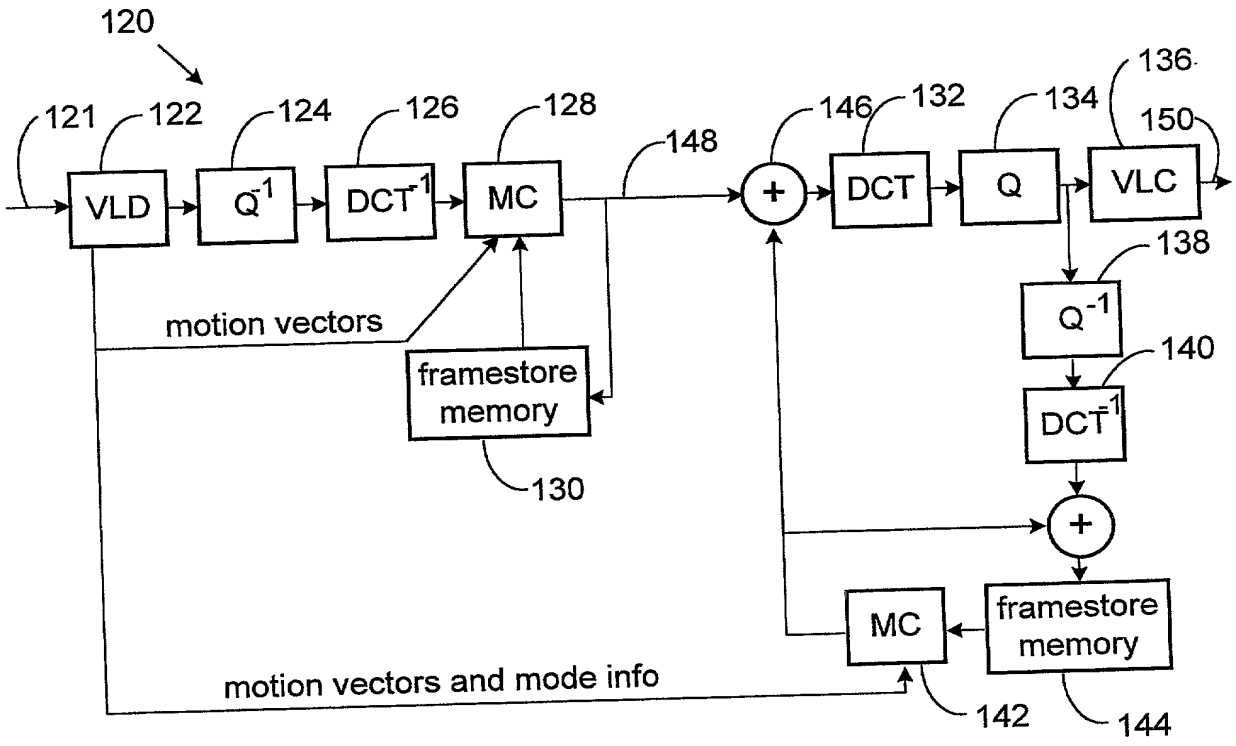

Figure 4B
(PRIOR ART)

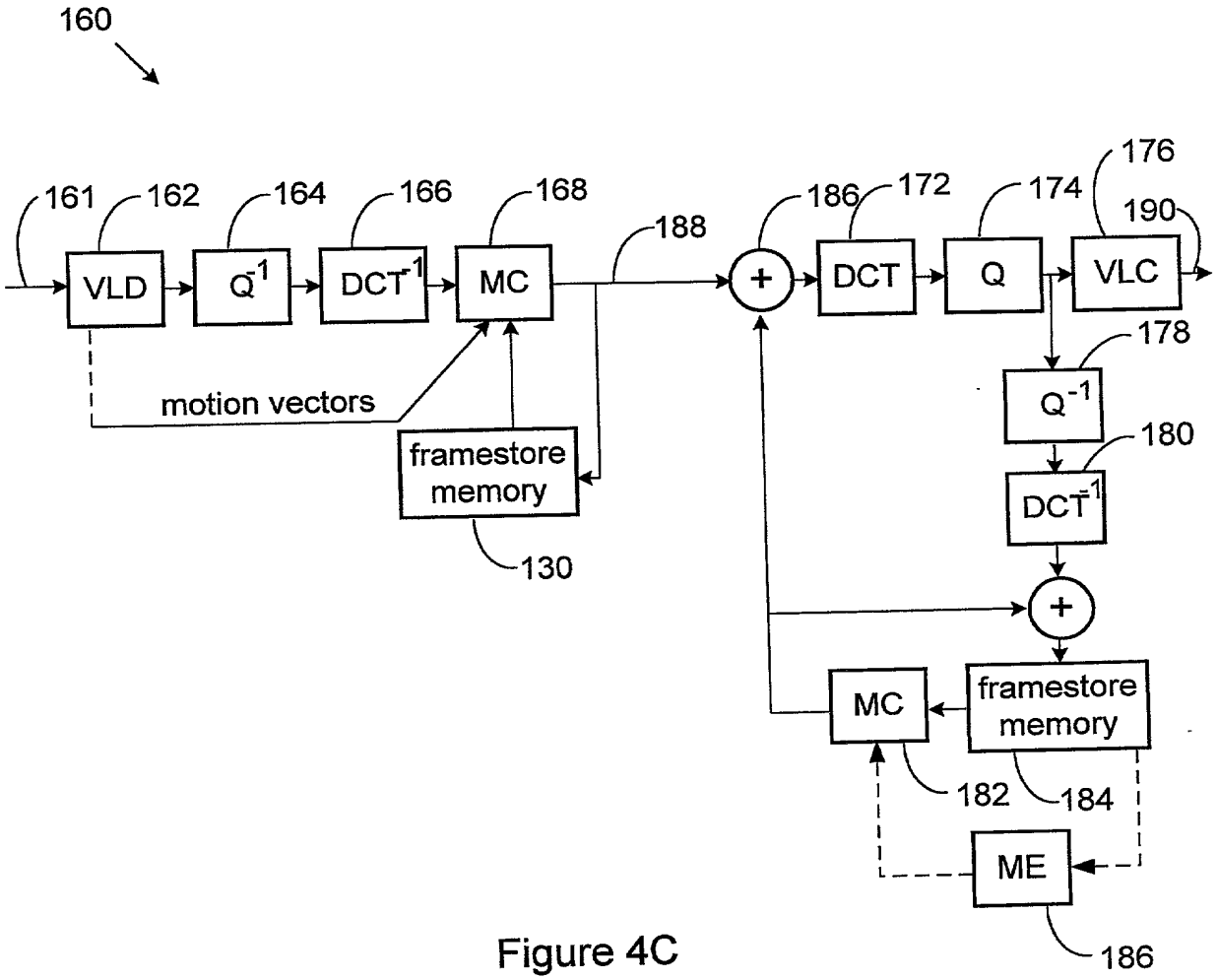

Figure 4C
(PRIOR ART)

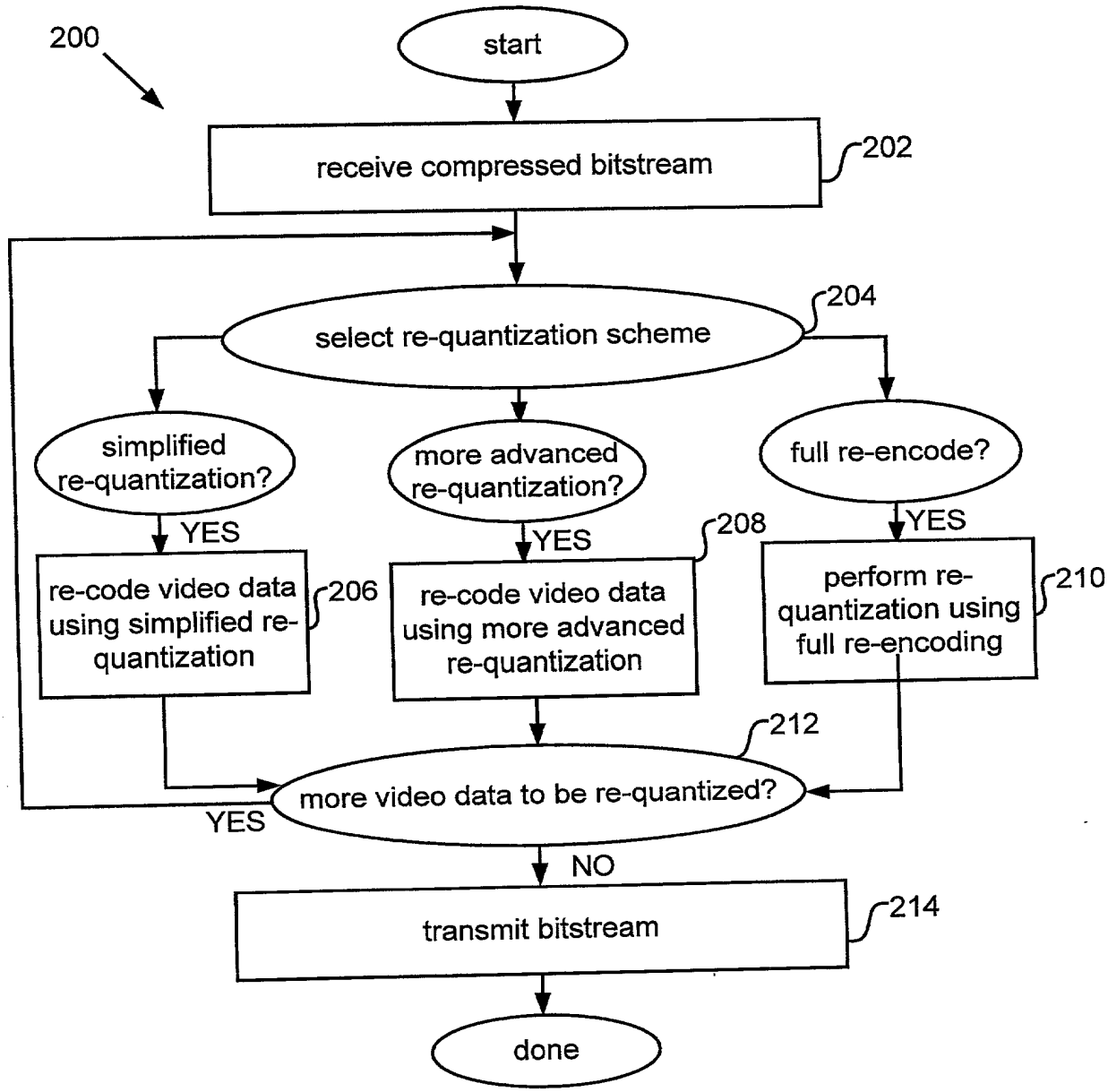
200
start
receive compressed bitstream
202
select re-quantization scheme
204
simplified re-quantization?
more advanced re-quantization?
full re-encode?
YES
YES
YES
208
re-code video data using simplified re-quantization
206
re-code video data using more advanced re-quantization
perform re-quantization using full re-encoding
210
212
more video data to be re-quantized?
YES
NO
transmit bitstream
214
done

Figure 4D

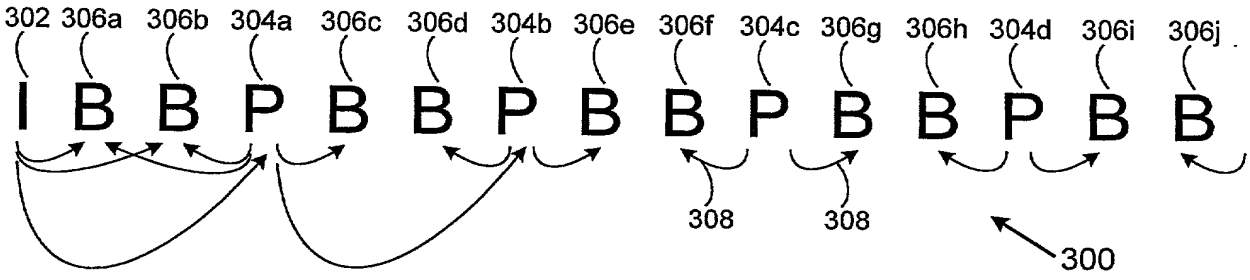

Figure 5A

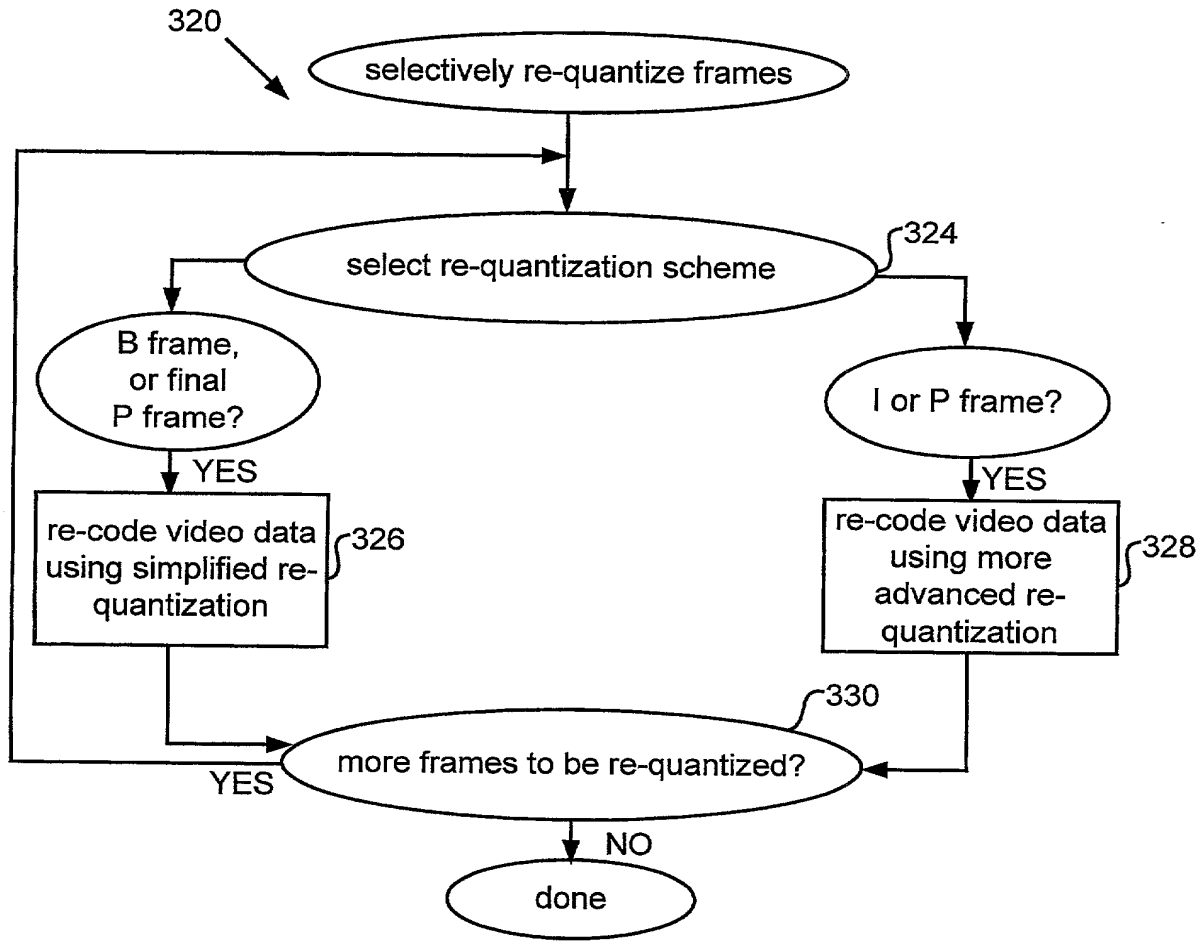

Figure 5B

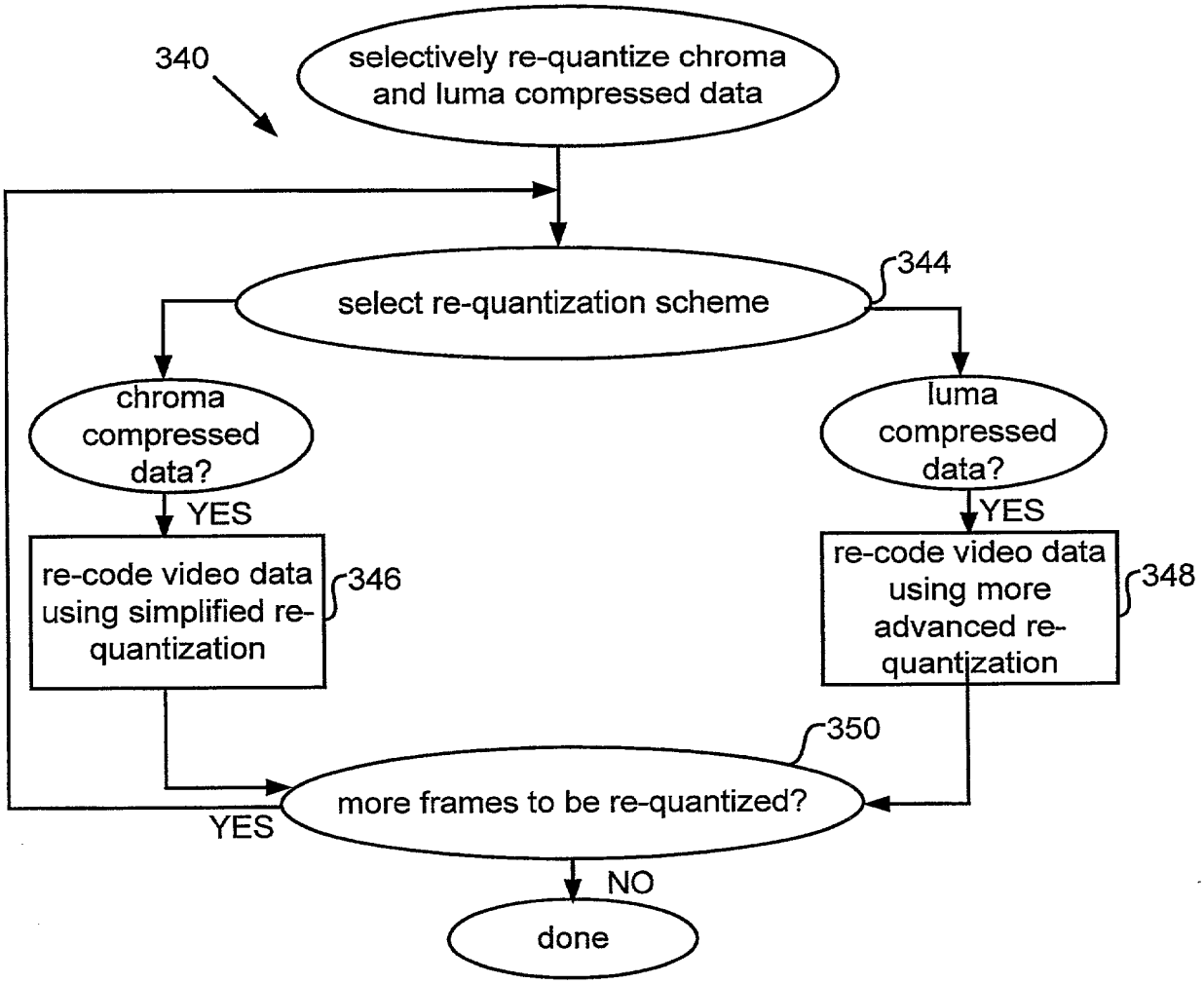
340
selectively re-quantize chroma and luma compressed data
select re-quantization scheme
344
chroma compressed data?
YES
re-code video data using simplified re-quantization
346
luma compressed data?
YES
re-code video data using more advanced re-quantization
348
350
more frames to be re-quantized?
YES
NO
done

Figure 5C

360

364 Combination/ Ranking	362 More demanding Re-quantization (e.g., process flow 120)	Less demanding Re-quantization (e.g., process flow 100)
1	all frames	none
2	all I, P, and B luma frames	B chroma frames
3	all I and P frames	all B frames
4	most I and P luma and chroma frames	last P luma and chroma frame in GOP, all B frames
5	I frames, most P luma frames	last P luma frame in GOP, all B frames
6	none	all frames
7	none	all I chroma and luma frames
8	none	just I chroma frames
9	none	none

Figure 5D

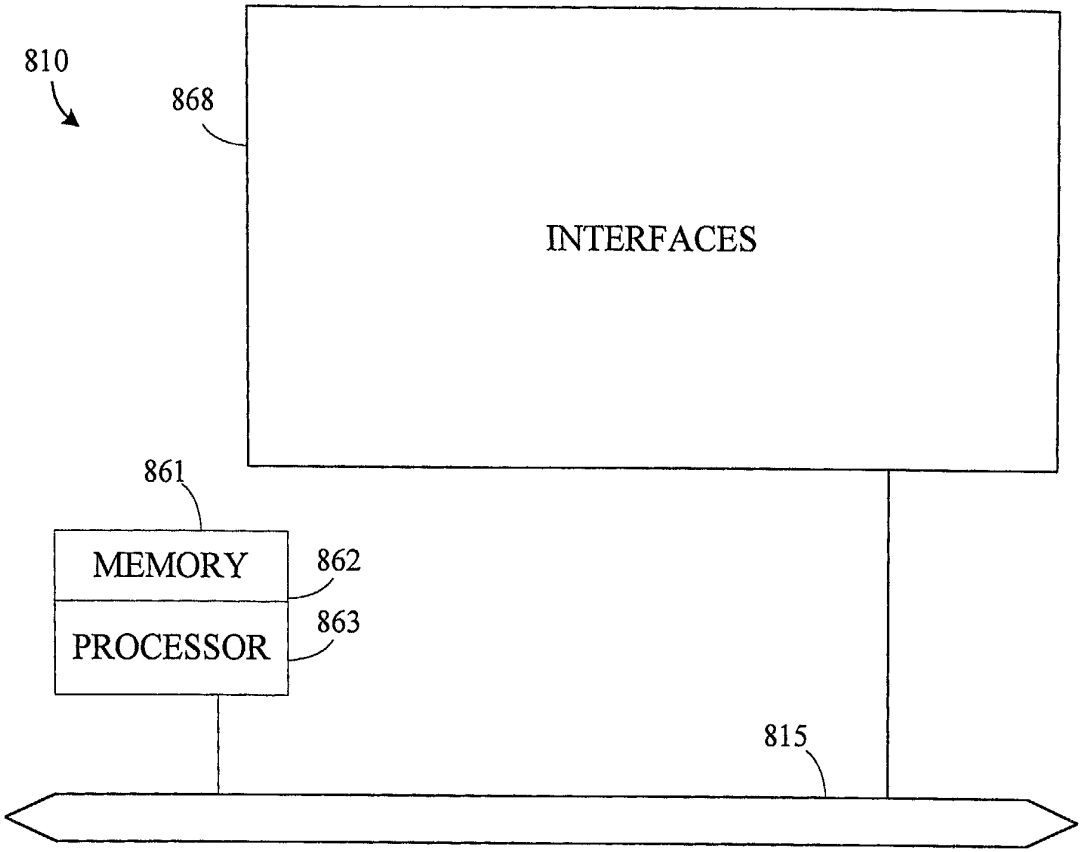

Figure 6